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(54) PRODUCTION OF WATER-ABSORBING POLYMER HAVING IMPROVED WATER-ABSORPTIVITY

(57)Abstract:

PURPOSE: To obtain a water-absorbing polymer having excellent saturated water- absorption, water-absorbing rate and gel strength and suitable as sanitary material, etc., in high efficiency by polymerizing an aqueous solution of an α,β -unsaturated carboxylic acid, etc., under specific condition and treating the obtained water-absorbing polymer with a cationic surfactant, etc.

CONSTITUTION: This water-absorbing polymer can be produced by polymerizing an aqueous solution of one or more monomers selected from α,β -unsaturated carboxylic acid (e.g. acrylic acid), its derivative and their salt by a W/O-type reversed-phase suspension polymerization using hydrophobic inorganic fine powder as a polymerization dispersion agent and treating the surface of the obtained water-absorbing polymer with a cationic surfactant (e.g. dioleyldimethylammonium chloride) and hydrophilic inorganic fine powder.

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